

Title (en)
Exhaust gas heat exchanger

Title (de)
Abgaswärmeübertrager

Title (fr)
Echangeur de chaleur pour gaz d'échappement

Publication
EP 1288603 A3 20040616 (DE)

Application
EP 02015893 A 20020717

Priority
DE 10142539 A 20010830

Abstract (en)
[origin: EP1288603A2] The exhaust gas heat transmitter moves heat from the exhaust gas of an internal combustion engine of a road vehicle to a cooling medium. It has a housing (1) with exhaust gas entry and outlet apertures together with a heat transmission area. In the housing is integrated a by-pass (3) through which at least a part flow of the exhaust gas can flow and which is thermically insulated in relation to the coolant medium. The by-pass is double-walled. Preferably, the by-pass has outer (4) and inner (5) conduits. The inner conduit is formed as a fixed-loose location in the outer by-pass conduit.

IPC 1-7
F28D 7/16; **F28F 27/02**; **F01N 5/02**

IPC 8 full level
F01N 5/02 (2006.01); **F28D 7/16** (2006.01); **F28F 27/02** (2006.01); **F01N 3/20** (2006.01); **F01N 13/14** (2010.01); **F01N 13/18** (2010.01); **F02B 75/12** (2006.01)

CPC (source: EP)
F01N 5/02 (2013.01); **F02M 26/25** (2016.02); **F28D 7/1684** (2013.01); **F28F 27/02** (2013.01); **F01N 3/20** (2013.01); **F01N 13/14** (2013.01); **F01N 13/18** (2013.01); **F01N 2260/10** (2013.01); **F01N 2410/00** (2013.01); **F02B 2075/125** (2013.01); **F02M 26/11** (2016.02); **F28D 21/0003** (2013.01); **F28F 2250/06** (2013.01); **Y02A 50/20** (2017.12); **Y02T 10/12** (2013.01)

Citation (search report)
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EP 1288603 A2 20030305; **EP 1288603 A3 20040616**; **EP 1288603 B1 20060705**; AT E332483 T1 20060715; DE 10142539 A1 20030320; DE 50207425 D1 20060817; ES 2267903 T3 20070316

DOCDB simple family (application)
EP 02015893 A 20020717; AT 02015893 T 20020717; DE 10142539 A 20010830; DE 50207425 T 20020717; ES 02015893 T 20020717